ABSTRACT

The present invention provides compositions and methods for extending the release times and lowering the toxicity of pharmacologically active compounds. The compounds comprise a salt of the pharmacologically active compound with a lipophilic counterion and a pharmaceutically acceptable water immiscible solvent. In one embodiment the compositions are provided as injectable compositions. The lipophilic counterion may be a saturated or unsaturated C_8-C_{22} fatty acid, and preferably may be a saturated or unsaturated C_{10}-C_{18} fatty acid. The compositions are released over time when administered to a mammal. Therefore, the present invention enables one to provide a controlled dose administration of the active compound for periods of up to 15 days or even longer. Many compounds can be administered according to the present invention including, but not limited to, tilmicosin, oxytetracycline, fluoxetine, roxithromycin, and turbinafine.